

Title (en)

Spark plug and process for fabricating the spark plug

Title (de)

Zündkerze und Herstellungsverfahren der Zündkerze

Title (fr)

Bougie d'allumage et méthode de fabrication de la bougie d'allumage

Publication

**EP 0954074 A2 19991103 (EN)**

Application

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Priority

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Abstract (en)

The invention provides a spark plug having an insulator which is composed mainly of alumina, and which is more superior in voltage endurance characteristics at high temperatures as compared with the prior-art materials. An insulator 2 of a spark plug 100 is made of an insulating material which is composed mainly of alumina, and which contains Al component within a range of 95 to 99.7 wt% in weight converted to Al<sub>2</sub>O<sub>3</sub>, and in which an area ratio occupied by alumina base principal-phase particles with particle size not less than 20  $\mu$ m is not less than 50% as a cross-sectional structure of the insulator is observed. By making the alumina base principal-phase particles appropriately coarse like this, the voltage endurance characteristics of the insulator can be remarkably improved. <IMAGE>

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IPC 8 full level

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